Title (en)
    Image processing apparatus

Title (de)
    Bildverarbeitungsgerät

Title (fr)
    Appareil de traitement d'images

Publication
    EP 0505113 B1 19971217 (EN)

Application
    EP 92302194 A 19920313

Priority
- JP 5221091 A 19910318
- JP 5221191 A 19910318

Abstract (en)
    [origin: EP0505113A2] When enlargement processing is performed, binary image data inputted from a data line 100 is subjected to contour smoothing by a contour smoothing and enlarging circuit 2 and the data is enlarged by a factor of n (where n is an integer) in the main scanning direction and m (where m is an integer) in the subordinate scanning direction. When reduction processing is performed, the binary image data is outputted as is from a selector 6 to a multivalue-converting circuit 3 via a signal line 200. In the multivalue-converting circuit 3, the binary image is stored temporarily in a memory, the image data of any area is extracted, image data of multivalued density is calculated based upon a window outputted from a weighting table upon making reference to an area comprising a pixel of interest and its peripheral pixels, and the multivalued data is outputted to a variable-power circuit 4 via a signal line 300. In the variable-power circuit 4, the multivalued-density image data is zoomed down to any size by thinning-out processing of an image clock and line synchronizing signal, and the resulting data is outputted to a binarizing circuit 5 via a signal line 400. The binarizing circuit 5 converts the image data of multivalued density into binary data and outputs this data on a data line 500. <IMAGE>

IPC 1-7
    H04N 1/393

IPC 8 full level
    G06T 3/40 (2006.01); **H04N 1/393** (2006.01); **H04N 1/40** (2006.01)

CPC (source: EP US)
    G06T 3/40 (2013.01 - EP US); **H04N 1/3935** (2013.01 - EP US); **H04N 1/40075** (2013.01 - EP US)

Cited by
    GB2319687A; GB2319687B; EP1282107A1; EP1282108A1; GB2307614A; GB2307614B; US5642135A; EP0617561A3; EP0511606A3; AU679027B2; EP0585043A3; US5479584A; EP2894841A1; US6657747B1; US6897981B2; US9396418B2

Designated contracting state (EPC)
    DE ES FR GB IT

DOCDB simple family (publication)
    EP 0505113 A2 19920923; **EP 0505113 A3 19921223**; **EP 0505113 B1 19971217**; CN 1065146 A 19921007; CN 1097806 C 20030101; DE 69223536 D1 19980129; DE 69223536 T2 19980416; ES 2109979 T3 19980201; US 5717793 A 19980210

DOCDB simple family (application)
    EP 92302194 A 19920313; CN 92101823 A 19920318; DE 69223536 T 19920313; ES 92302194 T 19920313; US 37645095 A 19950123